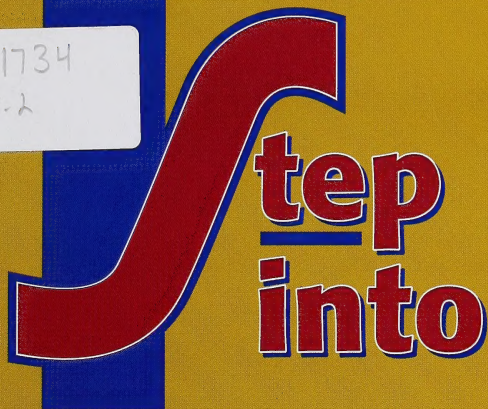


Are you looking for the path to your future?

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the Trades

Apprenticeship

**Post-secondary education
with a difference
real work, real money**



Alberta Apprenticeship
and Industry Training
Excellence through training and experience

Alberta
LEARNING

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**The Stylized Bear Paw symbol
represents the steps taken during
a career journey.**

Deciding what to do after high school can be hard.

With so many different career choices, it's never too soon to at least know your options.

Take the first step – find out if the skilled trades are right for you.

Skilled trades are in demand.

Once you complete your apprenticeship training, you'll be in a great position to fill the demand for skilled tradespeople. Employers across Alberta and Canada need skilled tradespeople as the current ones retire.

Journey inside to find more information on apprenticeship training.

With over 50 trades to choose from, one may be right for you!



Step into a skilled trade through apprenticeship training.

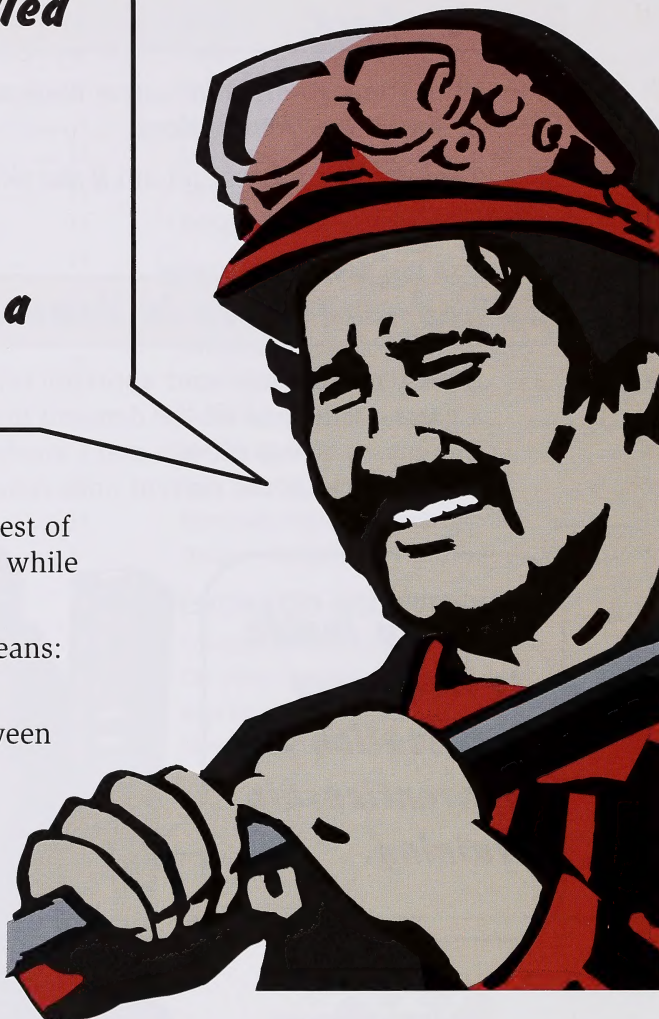
Post-secondary education with a difference.



Apprenticeship offers the best of both worlds – learn skills while you earn money.

A career in the skilled trades means:

- A good salary – wages that tradespeople earn range between \$9 and \$35 an hour plus benefits with some tradespeople earning more depending on the trade and the location of the job. It is very common for tradespeople to earn more than \$50,000 per year.
- Creative, challenging, hands-on and satisfying work.
- Independence.
- A sense of accomplishment.
- You can work anywhere in Canada.
- Skills that last a lifetime.
- Starting your own business and/or moving up into supervisory or management positions.



***Learn
by
doing***



It's real world experience. About 80 per cent of apprenticeship training takes place on-the-job. There, apprentices learn the skills of the trade with the help of a qualified journeyman.

The rest of the training is provided at a college or other technical institute for three to 12 weeks per year.

A person who completes an apprenticeship program becomes a certified journeyman.



***Earn
while
you
learn***



Imagine, earning a pay cheque while you are learning a skilled trade.

Apprentices earn from 40% to 90% of a journeyman's wage, depending on the trade and how much training the apprentice has completed. The wage increases as the apprentice moves from one period of apprenticeship to the next.

***It takes one to
four years of
on-the-job
and classroom
training to
become a skilled
tradesperson***



Just think, in a short time you'll earn a journeyman certificate and have skills that last a lifetime. Those skills will open doors to other possibilities. In fact, many tradespeople go on to careers in management, teaching or running their own business.



***Tradespeople
trained through
apprenticeship
work in your
communities***



Skilled tradespeople are involved in many areas of our lives. They build homes, shopping malls, arenas and schools. They repair the heating, cooling, electrical and plumbing systems in those buildings. We find skilled tradespeople in auto shops fixing cars, and on industrial sites making sure heavy equipment runs properly. They also work as cooks in restaurants and cruise ships, and as hairstylists in beauty salons.

Skilled trades may be the journey for you!

***Start an apprenticeship
program while you're in
high school.***



If you'd like to start work at a real job earning real money, the Registered Apprenticeship Program (RAP) is a great first step toward a career.

While going to high school, a RAP student earns hours of on-the-job training as credit toward both an apprenticeship program and a high school diploma/credential.



Here's what those who have made the journey from apprenticeship training to a skilled trade career have to say:

"Leaving home is part of life. You need to leave the home to pursue who you are; this is a stepping-stone for who you are becoming. The reward at the end is a good paying job and you will be respected by your community for the steps you took to better yourself. "

*Stonewall Jackson
Automotive Service Technician
Wabasca*

"It was hard moving to Edmonton and finding a place to live, but I did it. I made friends in my class, I worked hard, I went home on weekends and I just kept at it. It is worth the four years, it is the best thing I have ever done."

*Christine Featherstone
Welder
Leslieville*

"As an Aboriginal tradesperson I'm aware of the challenges people from minorities sometimes face when seeking employment. My advice to anyone considering the trades is don't just talk about it, do it."

*Gary Gladue
Welder
Fort McMurray*

"It is a life long learning opportunity. Once you get into the trades, the doors are wide open. There is a lot of satisfaction and you get a name for yourself when you finish. Don't be afraid or scared of trying it. You need to get out in the workforce, and it's an opportunity to meet your challenges."

*Robert (Bob) Golosky
Business owner
Welder and Boom Truck Operator
Fort McMurray*

"Once you have a trade, you can return home to your community and be an asset to your community. You will have a comfortable living and satisfaction in your job and in yourself that you did it."

*Leon Cardinal
Business owner
Carpenter
Sputinow*

"When I went to school it was hard to be away, it was very challenging. To help with that I just called home more often. Then I would get paid and I would see my pay cheque and I knew it was worth it."

*Cory Cardinal
Welder
Lac La Biche*

"People in the trades are professionals and are as important as any other profession. The trades are great for people who enjoy hands-on, challenging work."

*Rod Stagg
Business owner
Plumber, Steamfitter-Pipefitter
and Gasfitter
Calgary*



If a career in a skilled trade is right for you, these five steps will take you there, whether you enter RAP or start training after high school.



Step 1

Stay in school

The majority of trades require a high school diploma/credential, and some require advanced math and science. Employers prefer to hire high school graduates when they're recruiting apprentices, because they are looking for people who finish what they start.

Step 2

Decide which trade matches your interests and skills

Think about who you are, what you like to do, what kind of lifestyle you enjoy, and what you would like to do 10 years from now. If you need some help in this area, you may want to talk to your guidance counsellor, parents or an Apprenticeship and Industry Training consultant. We can put you in touch with a role model - someone in a skilled trade - who would be happy to answer any of your questions about this career path.

Step 3

Find an Employer

Once you have decided on a trade that's right for you, the next step is to find an employer to train you as an apprentice. This could be an employer you already know, or you may have to knock on some doors or answer the classified ads.



Step 4

Apply

Once you find an employer, contact any Apprenticeship and Industry Training Office or visit the “Forms” section of www.tradesecrets.org for an apprenticeship application.

Return the application to an Apprenticeship and Industry Training office near you once you and your employer have signed.

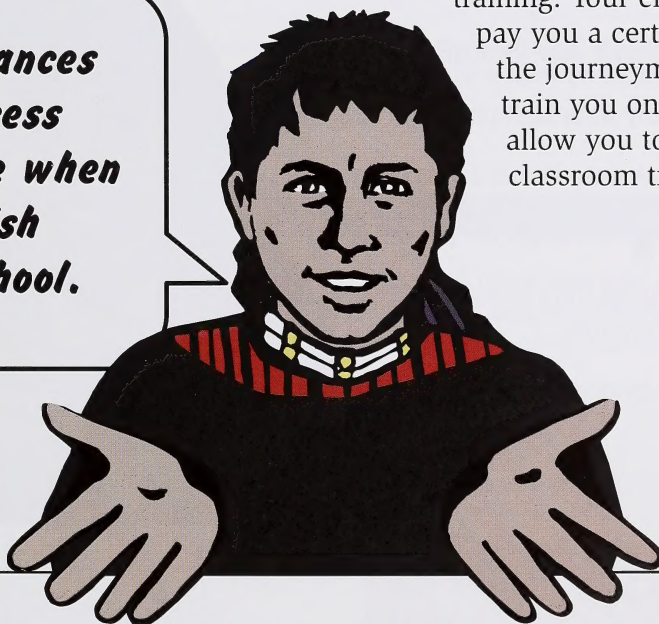
Step 5

Commitment

By signing the apprenticeship application/contract, you and your employer make an agreement.

You agree to finish your classroom and on-the-job training. Your employer agrees to pay you a certain percentage of the journeyman wage rate, train you on the job and allow you to attend classroom training.

Your chances for success increase when you finish high school.



Many employers prefer you finish high school. Most trades require some math and science (e.g. physics) courses. For the most current educational requirements, please see your counsellor or teacher or contact Apprenticeship and Industry Training at an office near you. See inside back cover for a list of offices.





If you enjoy working with your hands to fix or put things together, are good with numbers, interested in machines, tools or equipment, then one of the over 50 skilled trades could be your ticket to your dream career!

Most people working in the skilled trades:

- ▶ Arrive to work on time ready to tackle the day.
- ▶ Read blueprints.
- ▶ Perform calculations quickly and accurately.
- ▶ Are able to easily move their hands in placing and turning motions, for example, to turn knobs and levers on a control panel or to climb ladders (manual dexterity).
- ▶ Have good eye-hand coordination needed to drive a nail with a hammer or perform detailed work.
- ▶ Stand and bend with ease throughout the day.
- ▶ Work comfortably from high places (at heights).
- ▶ Follow directions, both verbal and written.
- ▶ Cooperate with others to get the job done.
- ▶ Visualize something from pictures, drawings, or blueprints.
- ▶ Keep up with advances in their field – lifelong learners.
- ▶ Work an average of 40 hours each week.

Check out the following eight groups of skilled trades and occupations.



Red Seal Program

The  next to some of the trades refers to the Red Seal Program. This program allows qualified journeymen to practice their trade in most Canadian provinces or territories.





BUILDING TRADES

All around us, skilled people are working in the construction industry building schools, hospitals and office towers, painting, roofing, finishing and other challenging jobs.

Apprenticeship training for skilled trades in this category ranges from one to four years.

Check out the building trades if you:

- ▶ Enjoy working with your hands to put things together.
- ▶ Like working with tools and equipment.
- ▶ Enjoy working with numbers.
- ▶ Pay attention to detail.
- ▶ Can see the finished product from an idea or drawing.
- ▶ Are able to easily move your hands in placing and turning motions, for example, to turn knobs and levers on a control panel or to climb ladders (manual dexterity).
- ▶ Are imaginative and creative.

For the most current educational requirements, please see your counsellor, teacher or contact Apprenticeship and Industry Training. Keep in mind that many employers prefer you finish high school.

Bricklayer

These tradespeople lay bricks, concrete blocks, stone and other materials to build and repair walls, patios, fireplaces and chimneys. They use hammers, chisels or saws to cut and fit bricks. Their work also involves lining or relining furnaces, boilers and similar installations.

| Length of Training | | | Skills and Interests |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 3 | 1600 hours per year | 8 weeks per year | Physically fit Willing to work outdoors Good eye for detail and colour Good balance for working on scaffolding Likes working with numbers Salary \$18 - \$21 per hour plus benefits |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories



Cabinetmaker

Using sanders, planes, power saws and other tools, they build and repair furniture, cabinetry and other items made of wood or wood substitutes for commercial and residential use. Their trade involves sanding wood surfaces and applying veneer, stain, polish or plastic laminates.

| Length of Training | | | Skills and Interests Good eyesight Good eye-hand coordination Artistically inclined Salary \$14 - \$19 per hour plus benefits |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 4 | 1360 hours per year | 8 weeks per year | |

Carpenter

This skilled trade had a role in almost every building around you. Using hand tools and power tools, carpenters build and repair buildings and other structures made of wood, wood substitutes, steel and other materials.

| Length of Training | | | Skills and Interests Artistically inclined Enjoys working with wood Moves hands easily in placing and turning motions to climb ladders, saw and hammer etc. (manual dexterity) Good balance for working on scaffolding Willing to stand for long periods and climb, bend and kneel throughout the day Good math skills to measure materials Able to lift between 11 and 25 kilograms Salary \$17 - \$25 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1360 hours per year | 8 weeks per year | |

Concrete Finisher

From sidewalks, patios, bridges, large buildings and other concrete structures those working in this skilled trade place and finish the concrete using hand and power tools. They also repair hardened concrete structures.

| Length of Training | | | Skills and Interests Enjoys strenuous work Willing to bend, stoop and kneel throughout the day Salary \$16 - \$23 per hour plus benefits |
|--------------------|---------------------|-------------------------|--|
| Years | On-the-Job | In-Class | |
| 3 | 1200 hours per year | 4 weeks in year 1 and 2 | |

Crane and Hoisting Equipment Operator

This tradesperson doesn't need strength to lift heavy objects like gravel or construction supplies, he/she uses a crane with a boom that expands and pulls in to lower or raise a hook that attaches to the load. At construction or industrial sites, ports, railway yards, factories, and warehouses, operators control a number of pedals and levers to rotate the crane, and raise and lower its boom and one or more loadlines, often all at the same time. They also clean and oil the equipment.

Heavy Boom Truck Operator

Works a boom truck that can lift 20 tons or greater.

| Length of Training | | |
|--------------------|---------------------|------------------|
| Years | On-the-Job | In-Class |
| 2 | 1000 hours per year | 4 weeks per year |

Skills and Interests

Very focused/high concentration level
 Good eyesight
 Good eye-hand coordination
 Comfortable with heights


Salary

\$12 - \$28 per hour plus benefits

Medium Boom Truck Operator

Works a boom truck that can lift between 5 and 20 tons.

| Length of Training | | |
|--------------------|------------|----------|
| Years | On-the-Job | In-Class |
| 1 | 1000 hours | 4 weeks |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories



Mobile Crane Operator

Works booms mounted on crawlers or wheeled frames. They may also drive the crane to the job site, rig the machine up (pin the boom and pendant cables, and pull the hoist cable in preparation for operation), and set up the machine for the lift.

| Length of Training | | |
|--------------------|---------------------|--|
| Years | On-the-Job | In-Class |
| 3 | 1500 hours per year | 4 weeks in year 1 5 weeks in year 3 |

Tower Crane Operator

Works a mechanical device or structure of a traveling, fixed or climbing type used for raising or lowering materials.

| Length of Training | | |
|--------------------|---------------------|-------------------|
| Years | On-the-Job | In-Class |
| 2 | 1000 hours per year | 3 weeks in year 1 |

Wellhead Boom Truck Operator

Works a boom truck that is used exclusively to work on wellhead, pumping and other operations.

| Length of Training | | |
|--------------------|------------|----------|
| Years | On-the-Job | In-Class |
| 1 | 100 hours | 3 days |

Elevator Constructor

Making sure our ride is smooth. Working at construction sites, in offices, apartment buildings and at industrial sites, the elevator constructor installs, changes and fixes electric and hydraulic elevators, personnel and man-hoists, moving walkways, escalators and related equipment.

| Length of Training | | | Skills and Interests |
|--------------------|---------------------|-------------------------------|---|
| Period | On-the-Job | In-Class | |
| 4 periods | 1800 hours per year | Training is under development | Mechanically inclined Works well in a small crew without direct supervision Pays attention to detail Salary \$22 - \$32 per hour plus benefits |

* A period of training for this trade ranges from six to 24 months.

Floorcovering Installer

Think about this trade with every step you take. This tradesperson installs, repairs and replaces flooring such as underpadding, carpet, tiles, hardwood, plastic laminates and other decorative coverings in residential, commercial and industrial locations. They use measuring, hammering, spreading and cutting and shearing tools as well as power tools, floor preparation and stretching tools and lifting equipment.

| Length of Training | | | Skills and Interests |
|--------------------|--|--|--|
| Years | On-the-Job | In-Class | |
| 3 | 1390 hours in year 1 1420 hours in year 2 1600 hours in year 3 | 7 weeks in year 1 6 weeks in year 2 | Physical strength and energy Lifts awkward loads in over 25 kilograms Good colour vision to match colours Salary \$14 - \$28 per hour plus benefits |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories



Glazier

Works with glass to cut, install and repair mirrors, windows and aluminium doors and other glass for commercial, residential and automotive use.

| Length of Training | | | Skills and Interests |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 4 | 1620 hours per year | 6 weeks per year | Physical strength and energy to work with heavy glass materials Able to work at heights Good eyesight to measure, cut and see flaws in glass Moves hands easily in placing and turning motions to climb ladders, operate power tools etc. (manual dexterity) Salary \$17 - \$20 per hour plus benefits |

Glazier – Auto Glass Technician

This trade removes, installs and sets glass for vehicles and off-road equipment.

| Length of Training | | | Skills and Interests |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 2 | 1620 hours per year | 6 weeks per year | Physical strength and energy to work with heavy glass materials Good eyesight to measure, cut and see flaws in glass Moves hands easily in placing and turning motions to climb ladders, operate power tools etc. (manual dexterity) Salary \$14 - \$20 per hour plus benefits |

Lather – Interior Systems Mechanic

Creates space by putting together and installing the frameworks for gypsum materials (or drywall sheets, thin layers of gypsum between two layers of heavy paper) in buildings.

| Length of Training | | | Skills and Interests |
|--------------------|----------------------|-------------------|--|
| Years | On-the-Job | In-Class | |
| 3 | 1560 hours in year 1 | 8 weeks in year 1 | Good hand-eye coordination Visualizes how things come together Able to bend and lift Able to work at heights Spots differences in how things appear Salary \$16 - \$22 per hour plus benefits |
| | 1620 hours in year 2 | 6 weeks in year 2 | |
| | 1560 hours in year 3 | 8 weeks in year 3 | |

Painter and Decorator

You know the job is almost done when these tradesmen arrive to prepare and apply paint stain, varnish, wallpaper, fabric, and other materials to surfaces like floors, doors, walls and trim.

| Length of Training | | | Skills and Interests |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 3 | 1300 hours per year | 8 weeks per year | Imaginative Good colour sense Able to work at heights Able to stand, kneel and crouch for long periods Salary \$14 - \$24 per hour plus benefits |

Roofer

Whether it's metal or asphalt shingles, tar, gravel or other materials, roofers prepare, install and repair them. They also apply weatherproofing mix to flat and sloped roof surfaces using hatchets, hammers, pry bars, tin snips, knives and chalk lines.

| Length of Training | | | Skills and Interests Able to work at heights Able to lift over 25 kilograms Basic math skills Physical strength and energy Salary \$17 - \$22 per hour plus benefits |
|--------------------|---|----------------------|--|
| Years | On-the-Job | In-Class | |
| 4 | 1420 hours in years 1-3 1600 hours in year 4 | 6 weeks in years 1-3 | |

Tilesetter

Workers in this trade use their artistic talent to cover, fix and decorate exterior and interior walls, floors and other surfaces using ceramic, marble, slate, stone or granite in the residential, commercial and industrial settings.

| Length of Training | | | Skills and Interests Able to lift over 25 kilograms Some artistic ability Attention to detail Able to visualize Salary \$17 - \$22 per hour plus benefits |
|--------------------|---------------------|-------------------------|---|
| Years | On-the-Job | In-Class | |
| 3 | 1600 hours per year | 8 weeks in year 1 and 2 | |



ELECTRICAL TRADES

They light up our lives and make our gadgets hum – a career in one of these skilled trades may involve work on construction or industrial sites, power stations, and electrical supply companies.

Apprenticeship training for skilled trades in this category is four years.

Check out the electrical trades if you:

- ▶ Are interested in electronics and how things work.
- ▶ Are strong in math and science.
- ▶ Like working with tools and equipment.
- ▶ Are able to easily move your hands in placing and turning motions to use screwdrivers, pliers etc. (manual dexterity).
- ▶ Are able to quickly and accurately manipulate small objects with your fingers, for example to place a screw (finger dexterity).
- ▶ Pay attention to detail.
- ▶ Have good colour vision.

For the most current educational requirements, please see your counsellor, teacher or contact Apprenticeship and Industry Training. Keep in mind that many employers prefer you finish high school.

Communication Technician


In the 21st century we definitely can't get along without this trade to install, maintain, remove and repair wiring networks, consumer communication equipment, switchboards and specialized equipment such as intercoms, fax machines, computer networks and electronic key systems. They also maintain and repair microwave, television, toll and switching equipment used to provide local or long distance service.

| Length of Training | | | Skills and Interests Mechanical ability Analytical ability Able to do fine, precise work with their hands Normal colour vision to work with colour-coded wiring Salary \$17 - \$23 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours per year | 8 weeks per year | |

Electrical Motor Systems Technician

They are responsible for testing, rebuilding and repairing electric motors, generators, transformers, controllers and related electrical and mechanical equipment used in commercial, industrial and institutional establishments.

| Length of Training | | | Skills and Interests Mechanical skill and interest Ability to lift up to 25 kilograms Attention to detail Moves hands easily in placing and turning motions to use screwdrivers, pliers etc. (manual dexterity) Salary \$13 - \$21 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours per year | 8 weeks per year | |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

Electrician

Bringing electricity where it's needed, they install, test, and fix electrical wiring, fixtures and control devices using tools such as screwdrivers, pliers, knives and hacksaws. They also use power tools and testing equipment.

| Length of Training | | | Skills and Interests |
|--------------------|---|--|---|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours in years 1-3 1350 hours in year 4 | 8 weeks in years 1-3 12 weeks in year 4 | <p>Good colour vision to work with colour-coded wiring</p> <p>Good with numbers</p> <p>Moves hands easily in placing and turning motions to use screwdrivers, pliers etc. (manual dexterity)</p> <p>Able to work at heights</p> <p>Precise</p> <p>Salary</p> <p>\$17 - \$24 per hour plus benefits</p> |

Electronic Technician

Services and repairs electronic equipment, such as radios, televisions, CD players and home computers. They use various testing equipment such as voltmeters, oscilloscopes, signal generators and frequency counters.

| Length of Training | | | Skills and Interests |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours per year | 8 weeks per year | <p>Moves hands easily in placing and turning motions to use screwdrivers, pliers etc. (manual dexterity)</p> <p>Normal colour vision</p> <p>Able to concentrate</p> <p>Salary</p> <p>\$12 - \$22 per hour plus benefits</p> |

Power Lineman

When there's trouble with your power, the power lineman finds the source of the problem and fixes it. They also build overhead and underground power lines used to carry electricity from generating plants to the customer. They put up and maintain poles and towers as well as install and look after street lighting systems.

| Length of Training | | | Skills and Interests Able to lift heavy objects up to 25 kilograms Good hearing and colour vision Able to work at heights and in different and extreme weather Salary \$17 - \$25 per hour plus benefits |
|--------------------|---|-------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1525 hours in years 1-3 1800 hours in year 4 | 7 weeks years 1-3 | |

Power System Electrician

This tradesperson works in substations or metering, to install, maintain and repair electrical power generation, transmission and distribution systems and equipment.

In substations, work with high voltage equipment such as circuit breakers, transformers, switches and the control circuits for protection, indication and monitoring systems. Involves adjusting relays, working on safety devices, and maintaining the large switch gear.

In metering, work with recording devices such as supervisory controls, indicating and recording devices, switchboards and equipment circuitry found in generating stations and powerhouses. They may install “demand” meters when a client company wishes to review the way it is billed for power usage.

| Length of Training | | | Skills and Interests Attention to detail Ability to handle heavy switch gear Works with precision instruments to “fine tune” equipment Salary \$17 - \$25 per hour plus benefits |
|--------------------|--|---|---|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours in year 1 and 2 1425 hours in year 3 and 4 | 8 weeks in year 1 and 2 10 weeks in year 3 and 4 | |

INDUSTRIAL TRADES

These skilled tradespeople usually work at industrial sites building and taking care of machines and parts used in industrial and consumer products. They use precision machinery, various power hand tools, power machines, torches and welding equipment.

Apprenticeship training for skilled trades in this category ranges from two to four years.

Check out the industrial trades if you:

- ▶ Enjoy repairing or putting together machinery (mechanically inclined).
- ▶ Enjoy working with numbers.
- ▶ Are able to easily move your hands in placing and turning motions to operate testing equipment etc. (manual dexterity).
- ▶ Like working with tools and equipment.
- ▶ Wouldn't mind working in tight spaces and noisy atmospheres.

For the most current educational requirements, please see your counsellor, teacher or contact Apprenticeship and Industry Training. Keep in mind that many employers prefer you finish high school.

Instrument Technician

Installs, maintains and repairs the control and metering systems used in industrial and commercial processing. Uses electrical and electronic devices to check, test, measure and control variables such as pressure, flow, temperature, motion and force.

| Length of Training | | | Skills and Interests Attention to detail Able to work in tight or high places Can handle noisy, dusty or cold and warm surroundings Salary \$17 - \$25 per hour plus benefits |
|--------------------|--|---|--|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours in year 1 and 2 1425 hours in year 3 and 4 | 8 weeks in year 1 and 2 10 weeks in year 3 and 4 | |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

Insulator

The work of this tradesperson keeps us cool in the summer, warm in the winter and stops noise and fire from spreading. The insulator applies, removes and repairs insulation using hand and power tools keeping us warm or cool, and to stop noise and fire from spreading. They also install vapour barriers around windows and doors. Insulation is glued, taped, stapled or blown into place.

| Length of Training | | | Skills and Interests Comfortable with heights and working in tight places. Able to work indoors and outdoors in very hot or cold settings Can handle dusty surroundings Salary \$17 - \$24 per hour plus benefits |
|--------------------|----------------------------|-------------------------|--|
| Years | On-the-Job | In-Class | |
| 4 | 1375 hours in year 1 and 2 | 6 weeks in year 1 and 2 | |
| | 1300 hours in year 3 | 8 weeks in year 3 | |
| | 1600 hours in year 4 | | |

Millwright

Depended on by industry to install machinery and keep equipment running smoothly, the millwright installs, tests and fixes machinery and equipment in factories, production plants and recreational facilities.

| Length of Training | | | Skills and Interests Mechanically inclined Enjoys fixing things Salary \$18 - \$25 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1560 hours per year | 8 weeks per year | |

Sawfiler

Using hand tools, filing machines and welding equipment, sharpen and repair saws including band saws, chain saws and circular saws for the lumber and wood products processing plants (Circular Sawfilers deal with all saws except band saws).

Sawfiler

| Length of Training | | |
|--------------------|---------------------|------------------|
| Years | On-the-Job | In-Class |
| 4 | 1680 hours per year | 4 weeks per year |

Skills and Interests

Moves hands easily in placing and turning motions (manual dexterity)
 Good eye-hand coordination
 Can handle noisy surroundings and lifting of heavy objects
 Willing to live and work in remote areas

Salary

\$14 - \$22 per hour plus benefits

Circular Sawfiler

| Length of Training | | |
|--------------------|---------------------|------------------|
| Years | On-the-Job | In-Class |
| 3 | 1680 hours per year | 4 weeks per year |

Water Well Driller

Sets up and operates a variety of drilling rig equipment to drill residential, commercial and industrial water wells. Also conducts environmental assessment drilling. Works with mobile drilling rigs to bore a hole for a well and line the hole with well casings.

| Length of Training | | |
|--------------------|---------------------|------------------|
| Years | On-the-Job | In-Class |
| 2 | 1800 hours per year | 6 weeks per year |

Skills and Interests

Likes to work outdoors and travel to various sites
 Can handle work that is strenuous, noisy and dirty

Salary

\$12 - \$19 per hour plus benefits



METAL TRADES

Indoors in shops and/or outdoors in all kinds of weather, working in the metal trades involves making products using machines and tools.

Apprenticeship training for the skilled trades in this category ranges from two to four years.

Check out the metal trades if you:

- ▶ Enjoy repairing or putting together machinery (mechanically inclined).
- ▶ Are able to easily move your hands in placing and turning motions to use wrenches etc. (manual dexterity).
- ▶ Like working with tools and equipment.
- ▶ Are able to measure distance by sight (depth perception).
- ▶ Have good eyesight.
- ▶ Have excellent eye-hand coordination to perform detailed work.
- ▶ Are able to concentrate on detailed work.
- ▶ Can see the finished product from an idea or drawing.
- ▶ Have patience.
- ▶ Wouldn't mind working in high, awkward and noisy places.

For the most current educational requirements, please see your counsellor, teacher or contact Apprenticeship and Industry Training. Keep in mind that many employers prefer you finish high school.

Ironworker

Helps put up buildings, bridges and other structures, installs conveyors and robotic equipment and sometimes performs work on existing structures and bridges, and tears down structures.

| Length of Training | | | Skills and Interests |
|--------------------|---------------------|------------------------|---|
| Period* | On-the-Job | In-Class | |
| 3 | 1125 hours per year | 6 weeks in each period | Mechanical skill and interest Good eye-hand coordination Comfortable with heights Good balance and eyesight Able to measure distance by sight (depth perception) Salary \$18 - \$28 per hour plus benefits |

* A period of training for this branch is 9 months.

Ironworker – Metal Building Systems Erector

Puts up steel framed one-story buildings.

| Length of Training | | | Skills and Interests |
|--------------------|----------------------------|----------------------|---|
| Period* | On-the-Job | In-Class | |
| 1 | 3000 hours over the period | 2 periods of 6 weeks | Mechanical skill and interest Good eye-hand coordination Comfortable with heights Good balance and eyesight Able to measure distance by sight (depth perception) Salary \$14 - \$28 per hour plus benefits |

* A period of training for this trade is 24 months.

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

Machinist

Sets up and operates metal cutting and grinding machines to manufacture and repair products made from a variety of materials. Works with hand and power tools and metal working machines, such as lathes, milling machines, drills and grinders.

| Length of Training | | | Skills and Interests Can handle noisy, dusty surroundings and working with dirty materials Comfortable standing for long periods Salary \$14 - \$25 per hour plus benefits |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 4 | 1560 hours per year | 8 weeks per year | |

Sheet Metal Worker

Designs, makes, joins, installs and fixes sheet metal products for different industries and settings. Fits and joins sheet metal with welding and other equipment to make products like ventilation shafts, partition frames, air and heat ducts, roof decking and sheet metal buildings. Uses black and galvanized steel, copper, brass, nickel, stainless steel, aluminium and tin plate.

| Length of Training | | | Skills and Interests Precision Able to estimate size and dimensions from blueprints Good eyesight Moves hands easily in placing and turning motions (manual dexterity) Able to visualize a finished product from a drawing Salary \$18 - \$26 per hour plus benefits |
|--------------------|---------------------|-------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1425 hours per year | 10 weeks per year | |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

Structural Steel and Plate Fitter

Lays out, prepares and assembles structural steel and steel vessels, containers and other components used for buildings, bridges, plates for tanks, boilers and similar products. Uses metal-working machines and cutting torches to cut steel, drill or punch holes and roll, bend or press steel into required shapes.

| Length of Training | | | Skills and Interests Can handle noisy and dusty surroundings Able to work in tight places Good coordination Mechanical skill and interest Moves hands easily in placing and turning motions (manual dexterity) Salary \$15 - \$21 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 3 | 1500 hours per year | 8 weeks per year | |

Tool and Die Maker

Using metal cutting machines and other equipment, these skilled workers make and repair tools, dies (metal forms used to shape metal) and special devices used in machines that make clothing, heavy equipment, parts for cars and other industrial and consumer products.

| Length of Training | | | Skills and Interests Mechanical skill and interest Moves hands easily in placing and turning motions (manual dexterity) Good at math and physics Good eyesight and hand-eye coordination Able to visualize a finished product Able to lift between 11 and 25 kilograms Salary \$16 - \$22 per hour plus benefits |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 4 | 1560 hours per year | 8 weeks per year | |

Welder

Joins metal pieces together or shapes metal using manual or semi-automatic welding equipment.

| Length of Training | | | Skills and Interests Mechanical skill and interest Able to move the fingers and manipulate small objects with the fingers quickly and accurately (finger dexterity) Good eyesight and eye-hand coordination Salary \$20 - \$30 per hour plus benefits |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 3 | 1560 hours per year | 8 weeks per year | |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

PIPING TRADES

It's all about pipes – from those in your home to those at industrial sites - skilled trades in this category involve installing, fixing and maintaining piping systems.

Apprenticeship training for skilled trades in this category ranges from three to four years.

Check out the piping trades if you:


- ▶ Enjoy math and sciences.
- ▶ Enjoy using hand and power tools.
- ▶ Like to take apart and put together machinery and motors (mechanically inclined).
- ▶ Are able to easily move your hands in placing and turning motions to use wrenches etc. (manual dexterity).
- ▶ Enjoy precise work.
- ▶ Wouldn't mind working in cramped areas.
- ▶ Are able to work from high places.
- ▶ Tolerate unpleasant weather, noise and odours.

For the most current educational requirements, please see your counsellor, teacher or contact Apprenticeship and Industry Training. Keep in mind that many employers prefer you finish high school.

Boilermaker

Builds, tests, and repairs boilers, vessels or other liquid-tight containers, structures, and equipment. Uses hand and power tools, welding equipment, and metal working machines, such as drill presses, shears, brakes, rolls and flame cutters.

| Length of Training | | | Skills and Interests |
|---------------------------|---------------------|---|---|
| Years | On-the-Job | In-Class | |
| 3 | 1500 hours per year | 12 weeks year 1 6 weeks year 2 and 3 | Willingness to work in tight spaces Can handle odours, noisy and dirty surroundings Comfortable with heights Salary \$18 - \$25 per hour plus benefits |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

Gasfitter – First Class

Sizes, installs, tests and fixes natural gas and propane equipment ranging from residential furnaces to industrial boilers. This tradesperson works at utility, propane distributor and mechanical and services companies.

| Length of Training | | | Skills and Interests Mechanically inclined Moves hands easily in placing and turning motions (manual dexterity) Able to lift heavy objects up to 25 kilograms Salary \$18 - \$24 per hour plus benefits |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 3 | 1500 hours per year | 8 weeks per year | |

Plumber

Piping systems carry water, waste and gases, and plumbers are there to install, repair and maintain them. They also install fixtures like sinks and toilets and other plumbing systems in homes and buildings.

| Length of Training | | | Skills and Interests Energy and strength to lift heavy pipes Able to stand for long periods and sometimes work in cramped positions Salary \$18 - \$24 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours per year | 8 weeks per year | |

Steamfitter-Pipefitter

Puts together, makes, installs and repairs pipe systems that carry liquids and gases such as water, steam or air using hand or power tools or machines. They generally work with steam boilers and other high- and low-pressure steam systems.

| Length of Training | | | Skills and Interests Precise to measure, cut, thread and bend pipe to required shape Salary \$18 - \$24 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours per year | 8 weeks per year | |

Sprinkler Systems Installer

Part of keeping people safe during a fire depends on these skilled tradespeople who make, install, test, maintain and fix sprinkler systems used for fire protection in industrial operations, office buildings, hotels, schools, hospitals and homes.

| Length of Training | | | Skills and Interests Precise to join pipes and piping sections Salary \$20 - \$30 per hour plus benefits |
|--------------------|---|----------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1600 hours in years 1-3 1800 hours in year 4 | 7 weeks in years 1-3 | |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories



SERVICE TRADES

From landscape gardener to baker and locksmith, these skilled tradespeople provide service to the public.

Apprenticeship training for skilled trades in this category ranges from two to four years.

Check out the service trades if you:

- ▶ Enjoy working with and being around people.
- ▶ Like creating things from scratch.
- ▶ Like to figure out solutions to problems.
- ▶ Enjoy taking things apart.
- ▶ Are able to easily move your hands in placing and turning motions (manual dexterity).
- ▶ Are able to quickly and accurately manipulate small objects with your fingers (finger dexterity).
- ▶ Have a good sense of proportion.

For the most current educational requirements, please see your counsellor, teacher or contact Apprenticeship and Industry Training. Keep in mind that many employers prefer you finish high school.

Appliance Service Technician

When ovens, washers, dryers and freezers, refrigerators and dishwashers break down, these technicians are there to fix them. They take the appliance apart, clean its parts, replace and reassemble parts and test appliances to make sure they are working. They also install household and commercial appliances.

| Length of Training | | | Skills and Interests Good eyesight and colour vision Able to stand, bend, reach and kneel throughout the day Salary \$17 - \$22 per hour plus benefits |
|--------------------|---------------------|--|--|
| Years | On-the-Job | In-Class | |
| 3 | 1600 hours per year | 8 weeks in year 1 and 2 6 weeks in year 3 | |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

Baker

Makes the bread, cookies, cakes, pies and other baked goods we eat by carefully weighing, measuring, and mixing the ingredients according to the recipe. Works with a variety of kitchen utensils and large and small appliances.

| Length of Training | | | Skills and Interests Willing to stand for long periods Responsible attitude to maintain a high standard of cleanliness necessary in the food industry Salary \$10 - \$16.50 per hour plus benefits |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 3 | 1560 hours per year | 8 weeks per year | |

Cook

In hotels, restaurants, hospitals and other places, cooks plan menus and prepare all sorts of meals.

| Length of Training | | | Skills and Interests Enjoys working with food Willing to stand for long periods Works quickly and carefully Responsible attitude to maintain a high standard of cleanliness necessary in the food industry Salary \$9 - \$12 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 3 | 1560 hours per year | 8 weeks per year | |

Hairstylist

Whether it's a trim or makeover, hairstylists use their skills to shampoo, cut, colour and style hair. They maintain, clean and sterilize equipment, including brushes, combs, clippers and scissors.

| Length of Training | | | Skills and Interests Willing to stand for long periods and bend throughout the day Keeps up to date on new hair fashions and trends Salary \$10 - \$17 per hour plus benefits |
|--------------------|---------------------|-------------------|---|
| Years | On-the-Job | In-Class | |
| 2 | 1400 hours per year | 10 weeks per year | |

Landscape Gardener

Whether it's private homes, commercial and public grounds, playgrounds, golf course or garden centres and greenhouses, this tradesperson plants and maintains greenery, trees, garden ornaments, lawns and other landscaping features using hand tools, equipment, machinery and chemical pesticides and fertilizers.

| Length of Training | | | Skills and Interests Able to work in all kinds of weather Able to lift over 25 kilograms Salary \$16 - \$20 per hour plus benefits |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 4 | 1200 hours per year | 8 weeks per year | |

Locksmith

Installs, repairs, and adjusts locks; makes keys and changes lock combinations on residential, commercial and automotive locksets using hand and power tools. Some shops specialize in:

Shop Locksmith – makes, services or repairs locks

Mobile Locksmith - makes, services or repairs locks in the field

Safe and Vault or Bank Equipment Technician – opens, installs and services safes and vaults

| Length of Training | | | Skills and Interests Can work in small and confined spaces Good eye-hand coordination Salary \$14 - \$25 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1560 hours per year | 8 weeks per year | |

Outdoor Power Equipment Technician

Repairs, services and maintains small gasoline and diesel powered recreational, marine and other equipment used by homeowners and industries, using hand and power tools and other equipment. Inspects and tests engines and motors, adjusts, repairs and replaces mechanical and electrical components. Outdoor power equipment technicians work in one of four areas:

Marine Equipment Technician - services outboard motors in boats and other watercrafts

Power Equipment Technician - services generators, mowers and chain saws

Recreational Equipment Technician - services snowmobiles and recreational utility vehicles

Turf Equipment Technician - services aerators and golf carts

| Length of Training | | | Skills and Interests Can work with dirty and greasy materials Interested in all types of machinery and engines Enjoys working with people and providing good customer service Salary \$8 - \$18 per hour plus benefits |
|--------------------|---------------------|---|---|
| Years | On-the-Job | In-Class | |
| 4 | 1000 hours per year | 8 weeks in years 1-3 6 weeks in year 4 | |

Refrigeration and Air Conditioning Mechanic

In homes, restaurants, grocery stores, hospitals and other sites, refrigeration and air conditioning systems and combined heating and cooling systems are installed, fixed and maintained by these tradespeople. When air conditioning and refrigeration equipment breaks down, these mechanics solve the problem by testing parts such as compressors and thermostats.

| Length of Training | | | Skills and Interests Moves hands easily in placing and turning motions (manual dexterity) Moves fingers easily to place fine and small objects (finger dexterity) Able to tell colours apart Able to lift over 25 kilograms Use sight, hearing, and smell to spot problems Salary \$23 - \$32 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours per year | 8 weeks per year | |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories



VEHICLE/MOTOR RELATED

We wouldn't be on the move without people working in these skilled trades. They fix and look after cars, motorcycles, trucks, heavy equipment, farm machinery and the parts and equipment related to these vehicles.

Apprenticeship training for skilled trades in this category ranges from two to four years.

Check out the vehicle/motor related trades if you:

- ▶ Like working on cars, trucks and other vehicles.
- ▶ Are able to easily move your hands in placing and turning motions to use wrenches etc. (manual dexterity).
- ▶ Like the challenge of finding out what is wrong with something and then fixing it.
- ▶ Enjoy taking apart and putting together machinery and motors (mechanically inclined).
- ▶ Have ability to estimate size and dimensions.
- ▶ Are able to visualize a finished piece of work from a sketch or brief description.
- ▶ Have good eyesight and able to spot differences in the way something looks.
- ▶ Persist until the job is right.

For the most current educational requirements, please see your counsellor, teacher or contact Apprenticeship and Industry Training. Keep in mind that many employers prefer you finish high school.

Agricultural Equipment Technician

Repairs farm machinery, including tractors, combines, harvesters, ploughs, spreaders and sprayers. Work includes general repairs, routine inspections, overhauling machinery, replacing needed components, testing and diagnostics.

| Length of Training | | | Skills and Interests Mechanical ability Good eye-hand coordination Strength to lift heavy machine parts Salary \$16 - \$28 per hour plus benefits |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours per year | 8 weeks per year | |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

Auto Body Technician

In your local body shop or dealership, this technician fixes and replaces damaged vehicle structures and body parts, and applies interior and exterior finishes. There are three branches to this trade.

Auto Body Prepper

Involved throughout the collision repair process, this skilled worker often begins with surface preparation, masking, priming and application of anti-corrosion compounds. They also remove and install bolt-on components such as hoods, decklids, fenders, trim, doors, glass and interior components.

Skills and Interests

Strength and energy to handle heavy tools and parts

Good eye for detail and colour

Moves hands easily in placing and turning motions (manual dexterity)

Salary


\$17 - \$26 per hour plus benefits

| Length of Training | | |
|--------------------|--|----------------------|
| Years | On-the-Job | In-Class |
| 2 | 1600 hours in year 1 1800 hours in year 2 | 4 weeks in year 1 |

Auto Body Repairer

Restores the structural integrity of the damaged vehicle during the repair process. This generally involves cutting away damaged components and welding in new or recycled replacements. Precise work is critical to restore the vehicle to its pre-damaged condition and to ensure that suspension and steering components are accurately aligned.

| Length of Training | | |
|--------------------|--|--|
| Years | On-the-Job | In-Class |
| 3 | 1600 hours in year 1 1500 hours in year 2 and 3 | 4 weeks in year 1 7 weeks in year 2 and 3 |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories



Auto Body Refinisher


This branch of the trade does damage appraisals, surface preparation, minor damage repairs, masking, colour matching, priming and top coating.

| Length of Training | | |
|--------------------|----------------------------|--|
| Years | On-the-Job | In-Class |
| 2 | 1600 hours in year 1 and 2 | 4 weeks in year 1 6 weeks in year 2 |

Automotive Service Technician

A worker in this trade is there to spot any potential problems on vehicles and light trucks. They also repair, adjust and test engines, steering systems, braking systems, drive trains, vehicle suspensions, electrical and air-conditioning systems and wheel alignments.

| Length of Training | | | Skills and Interests Good hearing and eyesight Moves hands easily in placing and turning motions (manual dexterity) Mechanically inclined Salary \$17 - \$26 per hour plus benefits |
|--------------------|---------------------|------------------|--|
| Years | On-the-Job | In-Class | |
| 4 | 1500 hours per year | 8 weeks per year | |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

Heavy Equipment Technician

Working in one of the four branches of this trade generally involves repairing, replacing and maintaining heavy vehicles and industrial equipment used in construction, logging, mining, forestry, farming and transportation.

Truck-Trailer Mechanic

Maintains and repairs transport devices such as flat decks, dry freight vans, refrigerated vans, tankers, dump trailers and other commercial pull type devices.

| Length of Training | | |
|--------------------|------------|----------|
| Years | On-the-Job | In-Class |
| 1 | 1500 hours | 8 weeks |

Truck and Transport Mechanic

Maintains and repairs trucks, buses and trailers and stationary and mobile internal combustion engines and components.

| Length of Training | | |
|--------------------|---------------------|------------------|
| Years | On-the-Job | In-Class |
| 3 | 1500 hours per year | 8 weeks per year |

Heavy Duty Equipment Mechanic (Off-Road)

Maintains and repairs vehicles and equipment such as stationary and mobile internal combustion engines and components, backhoes, trenchers, scrapers and trucks and trailers.

| Length of Training | | |
|--------------------|---------------------|------------------|
| Years | On-the-Job | In-Class |
| 3 | 1500 hours per year | 8 weeks per year |

Skills and Interests

Good eyesight, hearing and sense of smell to diagnose problems


Strength and energy to work with heavy equipment

Able to work in cramped or awkward positions

Mechanical ability and an interest in all types of machinery and engines, electronics and precision equipment

Salary

\$16 - \$28 per hour plus benefits

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

Heavy Equipment Technician

Maintains and repairs vehicles and equipment including rippers, ditchers, backhoes, trenchers, trucks and trailers.

| Length of Training | | |
|--------------------|---------------------|------------------|
| Years | On-the-Job | In-Class |
| 4 | 1500 hours per year | 8 weeks per year |

Training for this branch certifies you in the other three branches as well.

Motorcycle Mechanic

Puts together, maintains, fixes and restores motorcycles, motor scooters and other multi-wheeled all-terrain vehicles. Spots failures with the electrical system, engine, power train, suspension or frame. Routine maintenance includes cleaning and adjusting the carburetor, adjusting the clutch, brakes and drive chain, and replacing worn parts.

| Length of Training | | | Skills and Interests Mechanically inclined Able to lift over 25 kilograms Moves hands easily in placing and turning motions (manual dexterity) Salary \$15 - \$25 per hour plus benefits |
|--------------------|--|--|---|
| Years | On-the-Job | In-Class | |
| 4 | 1360 hours in year 1 and 2 1420 hours in year 3 and 4 | 8 weeks in year 1 and 2 6 weeks in year 3 and 4 | |

Parts Technician

When equipment breaks down or wears out, it's up to the parts technician to make sure the parts are available for repairs or replacements. They order and keep track of parts for vehicles, appliances, machinery and equipment.

| Length of Training | | | Skills and Interests Basic math skills Attention to details, like parts catalogues and inventories Salary \$13 - \$19 per hour plus benefits |
|--------------------|--|--|--|
| Years | On-the-Job | In-Class | |
| 3 | 1500 hours in year 1 1575 in year 2 and 3 | 8 weeks in year 1 6 weeks in year 2 and 3 | |

 **Red Seal Program** – allows qualified journeymen to work in most Canadian provinces or territories

Recreation Vehicle Service Technician

Whether for motor homes or truck campers, workers in this skilled trade install and repair recreational vehicle parts, including appliances, furnaces, refrigerators, windows, doors and vents.

| Length of Training | | | Skills and Interests Moves hands easily in placing and turning motions (manual dexterity) Mechanical and electrical aptitude Able to balance and work from ladders Able to drive large vehicles Salary \$12 - \$18 per hour plus benefits |
|--------------------|---------------------|------------------|---|
| Years | On-the-Job | In-Class | |
| 3 | 1600 hours per year | 8 weeks per year | |

Transport Refrigeration Technician

The safe shipping of food and medical supply depends on properly functioning refrigeration units, which are installed, repaired and maintained by these tradespeople. They put together and install refrigeration components such as motors, compressors and gauges, repair and replace parts and components, and fix entire refrigeration systems.

| Length of Training | | | Skills and Interests Mechanical ability and interest Moves hands easily in placing and turning motions (manual dexterity) Salary \$18 - \$26 per hour plus benefits. |
|--------------------|-----------------------|--------------------|--|
| Period* | On-the-Job | In-Class | |
| 3 periods | 1800 hours per period | 8 weeks per period | |

* A period of training for this trade is 14 months.



DESIGNATED OCCUPATIONS

The following four career choices are called designated occupations. Trainees complete a certain number of on-the-job training hours. Some also require in-class training.

For the most current educational requirements, please see your counsellor, teacher or contact Apprenticeship and Industry Training. Keep in mind that many employers prefer you finish high school.

Construction Craft Labourer

Construction craft labourers prepare and cleanup the site, move materials, tools and equipment, and complete demolition and excavation activities. They put together and take apart scaffolding, ramps, catwalks, shoring and barricades at construction sites. They also operate jackhammers and drills to break up concrete or pavement.

| Length of Training | | | Skills and Interests |
|--------------------|------------|---|--|
| Years | On-the-Job | In-Class | |
| 1 | 2000 hours | Consists of seven compulsory core training programs, along with one sector specific course and one from either an optional course or another sector specific course | Physical strength and energy Moves hands easily in placing and turning motions (manual dexterity) Able to lift more than 25 kilograms Salary \$10 - \$22 per hour plus benefits |

Gas Utility Operator

Making sure we have natural gas where we need it, the gas utility operator installs and takes care of gas utility pipeline systems that carry natural gas from its source to home furnaces and other places.

| Length of Training | | | Skills and Interests Mechanically inclined Moves hands easily in placing and turning motions (manual dexterity) Able to lift more than 25 kilograms Salary \$12 - \$28 per hour plus benefits |
|--------------------|---------------|----------|--|
| Years | On-the-Job | In-Class | |
| 2 | 1700 per year | 6 weeks | |

Steel Detailer

Working in an office, this specialized draftsman makes detailed shop or construction drawings used to make girders, beams, columns, stairways and other steel parts of buildings and structures.

| Length of Training | | | Skills and Interests Good computer and computer network skills Good eye for detail Enjoys math and physics Salary \$30,000 - \$60,000 per year |
|--------------------|-----------------|--|---|
| Years | On-the-Job | In-Class | |
| Varies | Work experience | CAD (computer-aided drafting /design) training from an Alberta post-secondary institution or through the Alberta Chapter of the National Institute of Steel Detailing (NISD) | |

Warehousing

These tradespeople make sure products such as food, office supplies, tools and equipment get to where they are needed. There are three branches to this occupation – basic, intermediate and technician.

Basic

Responsible for general warehouse activities including receiving, storing and shipping products, handling and transportation.

| Length of Training | | |
|--------------------|------------|--------------------------------------|
| Years | On-the-Job | In-Class |
| 1 | 1500 hours | All 7 sections of Warehousing Basic* |

Skills and Interests

Physical strength and energy
Able to stand most of the day
Able to lift up to 25 kilograms
Good math and computer skills

Salary

\$8 per hour – Basic
\$12 per hour – Intermediate
\$16 per hour – Technician

Intermediate

Uses tools and equipment to manage the flow of goods into, within and from organizations.

| Length of Training | | |
|--------------------|----------------------------------|---|
| Years | On-the-Job | In-Class |
| 1 | Basic certificate and 1500 hours | All 6 sections of Warehousing Intermediate* |

Technician

Designs, plans, and manages the flow of goods into, within, and from organizations.

| Length of Training | | |
|--------------------|---|---|
| Years | On-the-Job | In-Class |
| 1 | Intermediate certificate and 1500 hours | All 7 sections of Warehousing Technician* |

* Sections are 20-30 hours each.

Funding Options

*Here's some info
about paying for
your apprenticeship
training.
Know your options.*



How much does apprenticeship training cost?

There is a tuition fee for technical training. Like all other adult learners, apprentices pay a portion of the cost of their training. The apprentice must pay the tuition fee to the educational institution before the start of class.

Tuition Fees 2003 to 2007

2003/2004 - \$65.65 per week (\$525 for 8 weeks)

2004/2005 - \$81.25 per week (\$650 for 8 weeks)

2005/2006 - \$96.88 per week (\$775 for 8 weeks)

2006/2007 - \$112.50 per week (\$900 for 8 weeks)

What financial assistance is available?

Registered apprentices in Alberta may be eligible for financial help while attending the technical training portion of an apprenticeship program. Here are some options to consider:

► Employment Insurance (EI) Benefits

Employment Insurance (EI) Benefits are available for apprentices while attending technical training if they have worked sufficient hours to establish an EI claim.

The amount of work needed to establish a claim varies. Contact Human Resources Development Canada (HRDC) at 1-800-206-7218 for information or visit the HRDC website at www.hrdc-drhc.gc.ca/ae-ei/employment_insurance.shtml

► Grants-Skills Development Program (SDP)

Sometimes EI benefits are not enough to meet the apprentice's costs while in technical training, or the apprentice may not have worked enough hours for EI eligibility.

Financial assistance may be available from the Skills Development Program (SDP) of Alberta Human Resources and Employment for apprentices who:

- are attending full-time technical training as part of their apprenticeship program, and
- can demonstrate financial need.

An apprentice must submit an application to Students Finance. (Request the Financial Assistance Package for Apprentices.) If the application is approved, the apprentice will receive financial assistance in the form of a grant that does NOT have to be repaid. The amount of financial assistance is based on the apprentice's demonstrated need. This grant is used to cover tuition, books and living expenses while attending the technical training part of their apprenticeship program. Extraordinary living costs will be considered if there is a documented need.

► Scholarships

Each year, Alberta Apprenticeship and Industry Training Scholarships provide approximately 165 scholarships of \$1000 each to registered apprentices. The RAP Scholarships provide up to 50 scholarships of \$1000 each to high school students participating in the Registered Apprenticeship Program (RAP). Alberta registered apprentices may qualify for other scholarships available through Alberta Learning's Alberta Scholarship Programs.

For more information, contact Alberta Scholarship Programs at 780-427-8640.

► Information

For more information about financial assistance for apprentices call the Career Information Hotline toll free at 1-800-661-3753, in Edmonton call 422-4266. You may also want to check with your Aboriginal organization about Band or Aboriginal Human Resource Development Agreement funds.



Resources

The Internet is a great tool to help you plan your career or find a job. The following web sites are a good start to find out more about your career options:



Alberta Apprenticeship and Industry Training

www.tradesecrets.org

Trade-Up

www.careersconstruction.com

Information on construction trades.

Alberta Aboriginal Apprenticeship Project

www.thinktrades.com

Innovative pilot project that helps apprentices succeed.

CAREERS: The Next Generation

www.nextgen.org

Find out about hands-on learning for Alberta high school students.

Alberta Learning Information Service

www.alis.gov.ab.ca

Information on career planning, post-secondary education and training, educational funding, job searching, and labour market trends. Contains links to EDINFO (specific educational information for Alberta), and OCCINFO (occupational information and job futures for jobs in Alberta and Canada).

Aboriginal Youth Network

www.ayn.ca

Created for youth by youth, this site connects Aboriginal kids across Canada.

Destination 2020

www.careerccc.org/destination2020

On-line activities to help youth discover how everyday tasks can help them build skills they will need to face the many challenges of the workforce.

Youth Path

www.youthpath.ca

Gateway to many job-related sites across Canada.

**For more information see your guidance counsellor or contact
Apprenticeship and Industry Training.**

Bonnyville

New Park Place, Box 8115
5201 – 44 Street
Bonnyville AB T9N 2J4
Tel: (780) 826-6142
Fax: (780) 826-1904

Calgary

Suite 300, Willow Park Centre
10325 Bonaventure Drive S.E.
Calgary AB T2J 7E4
Tel: (403) 297-6457
Fax: (403) 297-4492

Edmonton

7th Floor, South Tower
Seventh Street Plaza
10030 – 107 Street
Edmonton AB T5J 4X7
Tel: (780) 427-8517
Fax: (780) 422-3734

Fort McMurray

Box 19, 7th Floor, Provincial
Building
9915 Franklin Avenue
Fort McMurray AB T9H 2K4
Tel: (780) 743-7150
Fax: (780) 743-7492

Grande Prairie

Suite 100, Towne Centre Mall
9845 – 99 Avenue
Grande Prairie AB T8V 0R3
Tel: (780) 538-5240
Fax: (780) 538-5237

Hinton

568 Carmichael Lane
Hinton AB T7V 1S8
Tel: (780) 865-8293
Fax: (780) 865-8269

Lethbridge

Room 280, Provincial Building
200 – 5th Avenue South
Lethbridge AB T1J 4C7
Tel: (403) 381-5380
Fax: (403) 381-5795

Medicine Hat

104 Provincial Building
346 – 3rd Street SE
Medicine Hat AB T1A 0G7
Tel: (403) 529-3580
Fax: (403) 529-3564

Peace River

9715 – 100 Street
Bag 900-28
Peace River AB T8S 1T4
Tel: (780) 624-6529
Fax: (780) 624-6476

Red Deer

3rd Floor, First Red Deer Place
4911 – 51 Street
Box 302
Red Deer AB T4N 6V4
Tel: (403) 340-5151
Fax: (403) 340-5153

Slave Lake

Box 787, Lakeland Centre
101 Main Street SE
Slave Lake AB T0G 2A0
Tel: (780) 849-7228
Fax: (780) 849-7356

Vermilion

Box 26, 1st Floor, Provincial
Building
4701 – 52 Street
Vermilion AB T9X 1J9
Tel: (780) 853-8150
Fax: (780) 853-8203

For offices outside your local calling area, call 310-0000,
then enter the ten-digit number you wish to reach. Deaf or
Hearing Impaired with TDD/TTY units call (780) 427-9999
in Edmonton. Other locations call 1-800-232-7215.

Order this resource from:
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Edmonton, AB. T5L 4X9
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ask for 427-2767 and select option #1.
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or download it at
www.tradesecrets.org



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